Contents

Marine Chemistry, Volume 49 (1995)

Research Papers	
Terrestrial and marine biomarkers in a seasonally ice-covered Arctic estuary — integration of multivariate and biomarker approaches	
M.B. Yunker, R.W. Macdonald, D.J. Veltkamp, W.J. Cretney	1
Methane sources, distributions and sinks from California coastal waters to the oligotrophic North Pacific gyre	
B.D. Tilbrook, D.M. Karl	51
Stopped flow luminol chemiluminescence determination of Fe(II) and reducible iron in seawater at subnanomolar levels	
D.W. O'Sullivan, A.K. Hanson Jr., D.R. Kester	65
Editorial	79
Marine Chemistry Discussion Paper	
Sedimentary organic matter preservation: an assessment and speculative synthesis	
J.I. Hedges and R.G. Keil	81
Comments	
T.F. Pedersen	117
R.A. Berner	121
L.M. Mayer	123
S.M. Henrichs	127
J.I. Hedges and R.G. Keil	137
Research Papers	
Oxygen isotope study of water masses in the Princess Elizabeth Trough, Antarctica	
R.D. Frew, K.J. Heywood and P.F. Dennis	141
Dissolved organic carbon in the equatorial Atlantic Ocean	
C. Thomas, G. Cauwet and JF. Minster	155
Partitioning of hydrophobic organic contaminants to resuspended sediments and plankton in the mesohaline	
Chesapeake Bay	
FC. Ko and J.E. Baker	171
Chromium in San Francisco Bay: superposition of geochemical processes causes complex spatial distributions of redox species	
K.E. Abu-Saba and A.R. Flegal	189
Photochemically induced redox reactions in seawater, I. Cations	10)
L.J. Spokes and P.S. Liss	201

The protonation constants of glycine in artificial seawater at 25°C		
S. Fiol, I. Brandariz and M. Sastre de Vicente	21	15
Reference material for nutrients in seawater: stability of nitrate, nitrite, ammonia and phosphate in autoclav-	ed samples	
A. Aminot and R. Kérouel		21
A new device for in-situ pore-water sampling		
A. Bertolin, D. Rudello and P. Ugo.	23	3:
18 2010111, 21 1000110 1110 11 0 001		
Special Issue: IOC Contaminants Baseline Study (edited by P.A. Yeats and A.M. Shiller)		
Preface	2/	41
		+1
The hydrographic setting of the IOC baseline cruise to the eastern Atlantic 30° S to 35° N	0.	40
C.I. Measures, P.A. Yeats and D. Schmidt		4.
Analytical intercomparison results from the 1990 Intergovernmental Oceanographic Commission open-oce	an baseline	
survey for trace metals: Atlantic Ocean		
W.M. Landing, G.A. Cutter, J.A. Dalziel, A.R. Flegal, R.T. Powell, D. Schmidt, A. Shiller, P. S.		
Westerlund and J. Resing	25	53
The distribution of Al in the IOC stations of the eastern Atlantic between 30°S and 34°N		
C.I. Measures.	26	67
Cadmium, copper and nickel distributions at four stations in the eastern central and south Atlantic		
P.A. Yeats, S. Westerlund and A.R. Flegal	28	83
Behavior of dissolved antimony, arsenic, and selenium in the Atlantic Ocean		
G.A. Cutter and L.S. Cutter	29	95
Reactive mercury in the eastern North Atlantic and southeast Atlantic		
J.A. Dalziel	30	07
Silver in the eastern Atlantic Ocean		
A.R. Flegal, S.A. Sañudo-Wilhelmy and G.M. Scelfo.	31	15

